

# REASONING MAINS GENIUS

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**EXAM**  
Genius

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- Detailed solutions and explanations Practice
- questions aligned with new pattern
- All miscellaneous questions based on latest past year trends
- Essential tips and tricks

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**Puzzle 1:-**Eight people—Aditi, Bella, Cathy, Diya, Ezra, Flora, Gia, and Hawa—joined the gym in different months: January, February, March, April, May, June, July, August, and September. Each person followed a unique diet plan: Paleo diet, Vegan diet, Low-carb diet, Dukan diet, Ultra-low-fat diet, Atkins diet, HCG diet, and Zone diet. There is one month with no new joiners.

- Cathy joined in a month with an odd number of days, but it was after March.
- Cathy joined three months after the person who followed the HCG diet.
- The person who followed the Low-carb diet joined in the month with the fewest days.
- Three people joined after Aditi, who followed the Zone diet.
- There was one person between Flora (who followed the Vegan diet) and the one who followed the Zone diet.
- The Vegan diet was not followed in August or April.
- Gia, who followed the Ultra-low-fat diet, joined three months after the vacant month, but not in September.
- The number of people who joined before Ezra is equal to the number of people who joined after Bella.
- Bella joined before the person who followed the Dukan diet.
- Hawa and Flora joined in consecutive months, but neither joined in April.
- Hawa did not join three months before the vacant month.
- Bella followed the Atkins diet.
- Cathy did not follow the Paleo or Atkins diets.

**1. Which of the following month is the vacant month?**

- a. May
- b. March
- c. February
- d. April
- e. June

**2. Who among the following follows Paleo diet?**

- a. Gia
- b. The one who joins in January
- c. Cathy
- d. Diya
- e. The one who joins in September.

**3. How many persons joined the gym between the vacant month and Ezra?**

- a. Two
- b. As many as joined between Cathy and the one who follows Vegan diet
- c. Four
- d. As many as joined between the one who follows HCG diet and Flora
- e. Five

**4. Which among the following statement(s) is/are true in the final arrangement?**

**I. Cathy follows Dukan diet**

**II. Gia joined the gym in July**

**III. Flora follows Low-carb diet**

- a. Only I
- b. Only II
- c. Only I and II
- d. Only II and III
- e. All I, II, III

**5. If the one who follows Zone diet is related to the one who follows Vegan diet and the one who follows Paleo diet is related to the one who follows Ultra-low-fat diet in a certain way, then which of the following is related to the one who follows HCG diet?**

- a. The one who follows Atkins diet
- b. The one who follows Zone diet
- c. The one who follows Low-carb diet
- d. The one who follows Dukan diet
- e. None of these

**Puzzle 2:-** Study the following information carefully and answer the question given below.

In a plumbing accessories manufacturing company, the following items viz. Adaptor, Barb, Cistern, Cross type, Elbow, Tee, Union, and Valves are manufactured in different months from January to September of the same year, but not necessarily in the same order. One of the months is considered as vacation leave. One of the months with 30 days has the vacation leave. The number of months before the vacation month is the same as the number of months after Union was manufactured. Only two items were manufactured between Union and Valves, which was manufactured in the month immediately before Cistern was manufactured. The number of items manufactured after Cistern is one less than the number of items manufactured before Tee. Elbow was manufactured in the month immediately before Tee. The position of Tee with respect to Union is the same as the position of Elbow with respect to Cross type. Atleast two months are there between the manufacturing of Cross type and Barb. Barb is manufactured neither in January nor in September. Only one month is between the manufacture of cross type and elbow.

**6. Which of the following item was manufactured immediately after the vacation month?**

- a. The item is manufactured in May month
- b. Barb
- c. Adaptor
- d. No such item
- e. None of these

**7. How many months are there between the manufacturing of Adaptor and Cistern?**

- a. One
- b. As many months between Tee and Adaptor
- c. Three
- d. More than three
- e. None

**8. If Barb is related to Cross type and Cistern is related to Elbow in a certain way, then which of the following item is related to Tee?**

- a. Valves
- b. Adaptor
- c. Barb
- d. Union
- e. None of these

**9. In which of the following month does Valves was manufactured?**

- a. April
- b. February
- c. January
- d. August
- e. None of these

**10. Four of the following five are alike in a certain way and hence form a group. Find the one that doesn't belong to that group.**

- a. Cross type
- b. Barb
- c. Valves
- d. Adaptor
- e. Tee

**Puzzle 3 :-** The one who plays Guitar instrument sits immediate left of the person one who plays Sitar instrument. Only one person sits between SU and JO. OG is one of the immediate neighbours of SU. The one who faces the outside of the centre plays Mouthorgan instrument. The one who plays Drum faces the JO. The persons who play Harmonium and Violin sit next to each other. NO does not play Mouthorgan. LG sits second to the right of OG. Only three persons sit between OG and AG. KG sits to the immediate right of AG. The persons who play Piano and Mouthorgan sit on the corners and opposite to each other. The person who play Harmonium sit immediate right of the person who plays Chello.

**1. Who among the following plays Sitar?**

- (a) OG
- (b) LG
- (c) SU
- (d) NO
- (e) AG

**2. Four of the following five are alike in a certain way based on the given arrangement and so form a group. Which is the one that does not belong to that group?**

- (a) LG, AG
- (b) AG, NO
- (c) LG, OG
- (d) OG, SU
- (e) None of the above

**3. What is the position of AG with respect to the one who plays Mouthorgan instrument?**

- (a) Third to the right
- (b) Second to the right
- (c) Immediate left
- (d) Third to the left
- (e) Fourth to the left

**4. Who among the following sits between LG and the one who plays Harmonium instrument?**

- (a) SU
- (b) The one who plays Drum
- (c) NO
- (d) The one who plays Chello
- (e) GO

**5. Which of the following statements is true regarding JO?**

- (a) JO face outside
- (b) JO plays Drum
- (c) JO sits immediate left of the person who plays Harmonium
- (d) There are two people sit between JO and GO.
- (e) None of the Above



**Puzzle 4 :-** Study the following statements and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

**1. Statements:**

**No Friday is Sunday**

**Some Sunday are Monday**

**All Monday are Tuesday**

**Only a Few Tuesday are Wednesday**

**Conclusions:**

**I) Some Wednesday are Monday**

**II) Some Tuesday are Not Wednesday**

**III) All Tuesday being Wednesday is a Possibility**

- a. Only I Follows
- b. Only II Follows
- c. Only III Follows
- d. Both I and II Follows
- e. Both II and III Follows

**2. Statements:**

**No Grape is Guava**

**Some Guava are Fruit**

**Only a Few Fruit is Banana**

**All Banana is Apple**

**Conclusions:**

**I) Some Fruit are not Banana**

**II) All Fruit being Apple is a Possibility**

- a. Only I Follows
- b. Only II Follows
- c. Both I and II Follows
- d. Either I or II Follows
- e. Neither I nor II Follows

**3. Statement:**

**Only a Few Pink are Public.**

**All Metro are City.**

**All City are Pink.**

**Conclusions:**

**I) All Pink can never be Public.**

**II) All City are Public.**

- a. Only I Follows
- b. Only II Follows
- c. Either I or II Follows
- d. Neither I nor II Follows
- e. Both I and II Follows

#### 4. Statements:

**Few Bro is Sis.**

**Only a few Wife is Son.**

**No Son is Sis.**

#### Conclusions:

**I) Some Wife being Sis is a possibility.**

**II) All Bro being Sis is a possibility.**

- a. Only I Follows
- b. Only II Follows
- c. Either I or II Follows
- d. Neither I nor II Follows
- e. Both I and II Follows

#### 5. Statements:

**No Abhi is Swati.**

**Only a few Manali is Alpa**

**All Alpa is Abhi.**

#### Conclusions:

**I) Some Manali is Swati.**

**II) No Manali is Swati.**

- a. Only I Follows
- b. Only II Follows
- c. Either I or II Follows
- d. Neither I nor II Follows
- e. Both I and II Follows

**Puzzle 5 :-**Two machine rearranges a given word and number step by step to a final output following same rule. Study the following information carefully and answer the below questions.

**Machine 1:**

**Input:** Social 372 473 Open Under 564 Network 385

**Step I:** \_(A)(B)(C)(D)(E)(F)(G)\_\_(H)\_

**Step II:** bhknrz 654 djmnqsv 732 473 Open Under 385

**Step III:** \_(A)(B)(C)(D)(E)(F)(G)\_\_(H)\_

**Step IV:** vsofe 374 qpof 583 bhknrz 654 djmnqsv 732

**Machine 2:**

**Input:** 381 Travel 468 Magic 624 Above Entry 531

**Step I:** bfhlz 648 381 Travel 624 Above Entry 531

**Step II:** \_(A)(B)(C)(D)(E)(F)(G)\_\_(H)\_

**Step III:** wpfcb 183 dkqsuz 264 bfhlz 648 Entry 531

**Step IV:** \_(A)(B)(C)(D)(E)(F)(G)\_\_(H)\_

**1.What comes in place of B in step III of machine 1?**

- a. qpof
- b. 583
- c. djmnqsv
- d. 473
- e. None of these

**2. What comes in place of D in step I of machine 1?**

- a. 732
- b. Social
- c. 473
- d. Under
- e. None of these

**3.What comes in place of C in step IV of machine 2?**

- a. wpfcb
- b. 264
- c. bfmsuw
- d. 183
- e. None of these

**4. What comes in place of G in step II of machine 2?**

- a. bfhlz
- b. 531
- c. Magic
- d. Entry
- e. Above

**5. What is the difference between the second highest number in step IV of machine 2 and the second lowest number in step III of machine 1?**

- a. 319
- b. 275
- c. 285
- d. 372
- e. None of these

**Puzzle 6 :-Study the following information carefully and answer the questions given below:**

**@** means either hour hand or minute hand is at 2

**+** means either hour hand or minute hand is at 5

**?** means either hour hand or minute hand is at 3

**<** means either hour hand or minute hand is at 4

**>** means either hour hand or minute hand is at 12

**~** means either hour hand or minute hand is at 8

**Note:** If two symbols are given in then by default first symbol is considered as an hour hand and the second

one is considered as a minute hand. And all time is considered at PM. e.g.  $<\sim = 4:40$  PM.

A train D which travels at the uniform speed of 10 m per second leaves Agra to Lucknow at

$@<$

and train F travels to Agra from Lucknow and started the journey at  $@\sim$ . The train F travels one third faster than train D. So, at what time both the train meet each other if the distance between

**1.Agra and Lucknow is 138 km?**

a.  $<\sim$

b.  $+<$

c.  $<@$

d.  $+?$

e. Data Inadequate

**2.If a train departed from a Delhi station at  $>?$  and it takes 150 minutes to reach the destination then at what time Naman should reach the destination if he wants to reach there before 5 minutes of the train's reaching time?**

a.  $\sim@$

b.  $@+$

c.  $@\sim$

d.  $?@$

e. None of the Above

**3. Study the following information carefully and answer the questions given below:**

**@** means either minutes or seconds are 13

**^** means either minutes or seconds are 32

**&** means either minutes or seconds are 35

**\$** means either minutes or seconds are 48

**>** means either minutes or seconds are 27

**#** means either minutes or seconds are 55

**%** means either minutes or seconds are 40

**Note:** if two symbols are given then by default first symbol is considered as minute and the other is considered as second

For example,

@> means 13 minutes and 27 seconds

In an examination hall the maximum exam time was # minutes and a student X completed his exam in exactly \$% and the student R who finished first took &@ so, what was the absolute difference between the time of X and R?

- @>
- >@
- >^
- ^>
- Can't Be Determined

**4. A person usually takes %> to reach office but he got late to his office by @&. Then, how much time it took the person to reach the office that day?**

- #@
- @#
- \$#
- #\$
- None of these

**5. Three contestants are participating in a race. The one who was in the second position finished the race in &# and he took @^ less than the one who finished third. Then how much time was taken by the one who finished third?**

- #%
- %#
- \$>d. >\$
- None of these

## Answers

### Puzzle 1 :- Question 1

Answer ( D )

### Puzzle 1 :- Question 2

Answer ( E )

### Puzzle 1 :- Question 3

Answer ( C )

### Puzzle 1 :- Question 4

Answer ( C )

### Puzzle 1 :- Question 5

Answer ( E )

### Puzzle 2 :- Question 1

Answer ( B )

### Puzzle 2 :- Question 2

Answer ( C )

### Puzzle 2 :- Question 3

Answer ( A )

### Puzzle 2 :- Question 4

Answer ( D )

### Puzzle 2 :- Question 5

Answer ( E )

	<del>Case1</del>	Case 2	<del>Case 2a</del>
Month	Items	Items	Items
January		Elbow	Valves
February	Valves	Tee	Cistern
March	Cistern	Cross type	Cross type
April	Vacation	Union	Union
May	Cross type	Adaptor	Adaptor
June	Union	Vacation	Vacation
July	Elbow	Barb	Barb
August	Tee	Valves	Elbow
September		Cistern	Tee

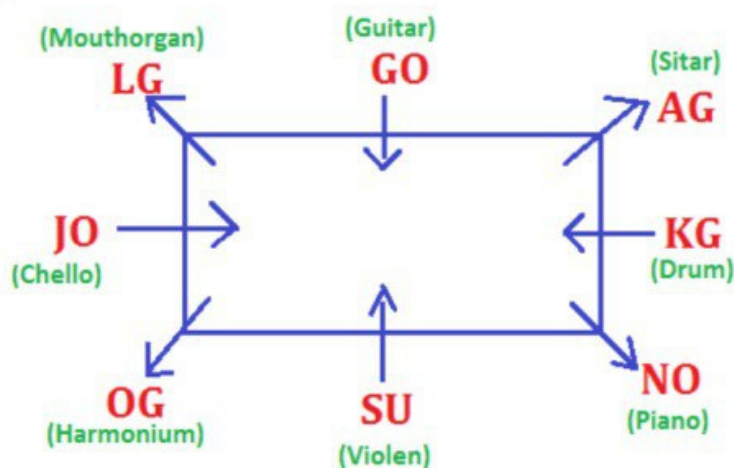
	<del>Case2</del>	Case3
Month	Person	Diet Plan
January	Bella	Bella
February	Hawa	Low-carb
March	Flora	Vegan
April	Diya	HCG
May	—	—
June	Aditi	Zone
July	Cathy	Gia
August	Gia	Ultra-low-fat
September	Ezra	Ezra

Directions (1-5): Study the following information carefully and answer the given questions.

Eight friends regularly going for musical class where they learn to play different type of musical instruments. Eight friends are AG, OG, LG, SU, NO, GO, JO and KG who are sitting around a square table in such a way that four of them sit at four corners while four sit in the middle of each of the four sides for playing different musical instruments, but not necessarily in the same order. Each one of them play different instruments viz. Guitar, Piano, Sitar, Drum, Mouthorgan, Violon, Harmonium and Chello. The one who sit in the middle of the sides face the centre while those who sit at the four corners face outside (i.e opposite to the centre).

JO sits third to the right of NO. The one who faces the centre plays Guitar instrument. NO sits on one of the corners of the table. OG does not play Piano. The one who plays Sitar instrument is one of the immediate neighbours of GO.

(1-5):



**Puzzle 3 :- Question 1**

Answer ( E )

**Puzzle 3 :- Question 2**

Answer ( D )

**Puzzle 3 :- Question 3**

Answer ( B )

**Puzzle 3 :- Question 4**

Answer ( D )

**Puzzle 3 :- Question 5**

Answer ( E )

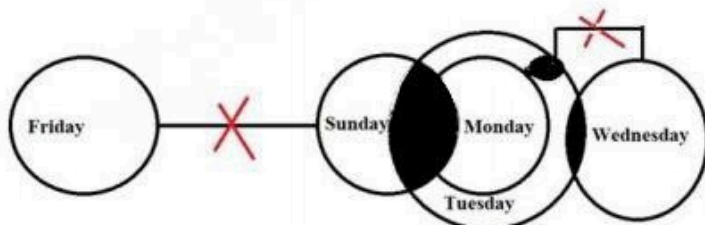


## Puzzle 4 :-

### 1. Questions

**Answer: B**

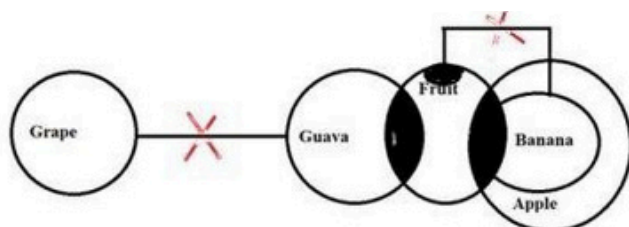
The diagram will look like this:



### 2. Questions

**Answer: C**

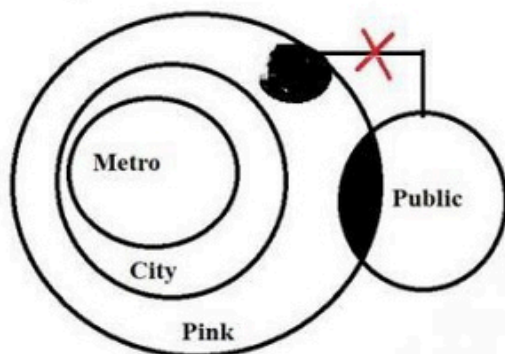
The diagram will look like this:



### 3. Questions

**Answer: A**

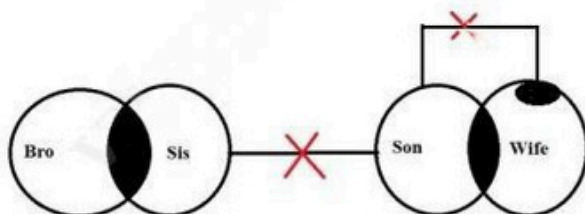
The diagram will look like this:



### 4. Questions

**Answer: E**

The diagram will look like this:



### 5. Questions

**Answer: C**

The diagram will look like this:

## Puzzle 5 :- Question 1

Answer: B

### Explanation

We have: Words are arranged in such a way that words starting with consonants are rearranged first followed by words starts with vowels in alphabetical order. For words: If the word starts with a vowel then, change all letters with its immediate next letter. Else, if

the word starts with a consonant then, change all letters with its immediate preceding letter. Also, after changing letters, letters of the word start with vowel are changed in reverse alphabetical order, and the word starts with consonants are rearranged in alphabetical order.

Numbers are arranged in such a way that even numbers are arranged first followed by odd numbers in ascending order.

For number: If a number is odd, then interchange the first and the last digit, else if a number is even then interchange the first and the second digit. Based on the above given information we have:

Machine 1:

Input: Social 372 473 Open Under 564 Network 385

Step I: djmnqsv 732 Social 473 Open Under 564 385

Step II: bhknrz 654djmnqsv 732 473 Open Under 385

Step III: qpof 583 bhknrz 654djmnqsv 732 473 Under

Step IV: vsofe 374 qpof 583 bhknrz 654 djmnqsv 732

Machine 2:

Input: 381 Travel 468 Magic 624 Above Entry 531

Step I: bfhlz 648 381 Travel 624 Above Entry 531

Step II: dkqsuz 264 bfhlz 648 381 Above Entry 531

Step III: wpcfb 183 dkqsuz 264 bfhlz 648 Entry 531

Step IV: zusof 135 wpcfb 183 dkqsuz 264 bfhlz 648

Answer: B

## Puzzle 5 :- Question 2

Answer:C

### Explanation:

We have:

Words are arranged in such a way that words starting with consonants are rearranged first followed by words starts with vowels in alphabetical order.

For words: If the word starts with a vowel then, change all letters with its immediate next letter. Else, if the word starts with a consonant then, change all letters with its immediate preceding letter. Also, after changing letters, letters of the word start with vowel are changed in reverse alphabetical order, and the word starts with consonants are rearranged in alphabetical order. Numbers are arranged in such a way that even numbers are arranged first followed by odd numbers in ascending order. For number: If a number is odd, then interchange the first and the last digit, else if a number is even then interchange the first and the second digit. Based on the above given information we have:

Machine 1:

Input: Social 372 473 Open Under 564 Network 385

Step I: djmnsqv 732 Social 473 Open Under 564 385

Step II: bhknrz 654djmnsqv 732 473 Open Under 385

Step III: qpof 583 bhknrz 654djmnsqv 732 473 Under

Step IV: vsofe 374 qpof 583 bhknrz 654 djmnsqv 732

Machine 2:

Input: 381 Travel 468 Magic 624 Above Entry 531

Step I: bfhlz 648 381 Travel 624 Above Entry 531

Step II: dkqsuz 264 bfhlz 648 381 Above Entry 531

Step III: wpfcb 183 dkqsuz 264 bfhlz 648 Entry 531

Step IV: zusof 135 wpfcb 183 dkqsuz 264 bfhlz 648

Answer: C

## Puzzle 5 :- Question 3

Answer:A

### Explanation:

8. Questions

We have:

Words are arranged in such a way that words starting with consonants are rearranged first followed by words starts with vowels in alphabetical order.

For words: If the word starts with a vowel then, change all letters with its immediate next letter.

Else,if the word starts with a consonant then, change all letters with its immediate preceding letter.

Also, after changing letters, letters of the word start with vowel are changed in reverse alphabetical order, and the word starts with consonants are rearranged in alphabetical order.

Numbers are arranged in such a way that even numbers are arranged first followed by odd numbers in ascending order. For number: If a number is odd, then interchange the first and the last digit, else if a number is even then interchange the first and the second digit. Based on the above given information we have:

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Step IV: vsofe 374 qpof 583 bhknrz 654 djmnsqv 732

Machine 2:

Input: 381 Travel 468 Magic 624 Above Entry 531

Step I: bfhz 648 381 Travel 624 Above Entry 531

Step II: dkqsuz 264 bfhz 648 381 Above Entry 531

Step III: wpfcb 183 dkqsuz 264 bfhz 648 Entry 531

Step IV: zusof 135 wpfcb 183 dkqsuz 264 bfhz 648

Answer: A

## Puzzle 5 :- Question 4

Answer:D

### Explanation:

We have:

Words are arranged in such a way that words starting with consonants are rearranged first followed by words starts with vowels in alphabetical order.

For words: If the word starts with a vowel then, change all letters with its immediate next letter.

Else,if the word starts with a consonant then, change all letters with its immediate preceding letter.

Also, after changing letters, letters of the word start with vowel are changed in reverse alphabetical order, and the word starts with consonants are rearranged in alphabetical order.

Numbers are arranged in such a way that even numbers are arranged first followed by odd numbers in ascending order.For number: If a number is odd, then interchange the first and the last digit, else if a number is even then interchange the first and the second digit. Based on the above given information we have:

Machine 1:

Input: Social 372 473 Open Under 564 Network 385

Step I: djmnqsv 732 Social 473 Open Under 564 385

Step II: bhknrz 654djmnqsv 732 473 Open Under 385

Step III: qpof 583 bhknrz 654djmnqsv 732 473 Under

Step IV: vsofe 374 qpof 583 bhknrz 654 djmnqsv 732

Machine 2:

Input: 381 Travel 468 Magic 624 Above Entry 531

Step I: bfhz 648 381 Travel 624 Above Entry 531

Step II: dkqsuz 264 bfhz 648 381 Above Entry 531

Step III: wpfcb 183 dkqsuz 264 bfhz 648 Entry 531

Step IV: zusof 135 wpfcb 183 dkqsuz 264 bfhz 648

Answer: D

## Puzzle 5 :- Question 4

Answer:A

### Explanation:

We have:

Words are arranged in such a way that words starting with consonants are rearranged first followed by words starts with vowels in alphabetical order.

For words: If the word starts with a vowel then, change all letters with its immediate next letter. Else, if the word starts with a consonant then, change all letters with its immediate preceding letter. Also, after changing letters, letters of the word start with vowel are changed in reverse alphabetical order, and the word starts with consonants are rearranged in alphabetical order.

Numbers are arranged in such a way that even numbers are arranged first followed by odd numbers in ascending order.

For number: If a number is odd, then interchange the first and the last digit, else if a number is even then interchange the first and the second digit. Based on the above given information we have:

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Step II: dkqsuz 264 bfhlz 648 381 Above Entry 531

Step III: wpfcb 183 dkqsuz 264 bfhlz 648 Entry 531

Step IV: zusof 135 wpfcb 183 dkqsuz 264 bfhlz 648

Answer: A

We have:

Words are arranged in such a way that words starting with consonants are rearranged first followed by words starts with vowels in alphabetical order.

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Step III: wpfcb 183 dkqsuz 264 bfhlz 648 Entry 531

Step IV: zusof 135 wpfcb 183 dkqsuz 264 bfhlz 648

Answer: A

### Puzzle 6 :- Question 1

Answer C

So, speed of train D =  $10 \times 18/5 = 36$  km/hr

As the speed of train F is one-third faster than train D, the speed of train F =  $36 + (1/3 \text{ of } 36) = 48$  km/hr.

Now, difference between time = 2:20 PM – 2:40 PM = 20 minutes i.e.  $1/3$  hour.

So, at 2:40 PM, train D already covered  $36/3 = 12$  km.

Thus, the distance between train D and train F is  $(138 - 12) = 126$  km now.

Let's assume the trains meet after x hours from 2:40 PM.

$$36x + 48x = 126$$

Therefore,  $x = 1.5$  hours

Thus, at the time when both the trains meet each other = 2: 40 PM + 90 minutes = 4:10 PM.

As per the question, we can code 4:10 PM as <@.

### Puzzle 6 :- Question 2

Answer: C

Since the train is departed from the Delhi station at >? i.e. 12:15 PM and it takes 150 minutes to reach the destination, it means the train will reach at destination on 2:45 PM.

As Naman have to reach the destination before 5 minutes, the reaching time for Naman would be 2:40 PM

i.e. @~.

### Puzzle 6 :- Question 3

Answer: A

Student X took \$% i.e. 48 minutes 40 seconds

Student R took &@ i.e. 35 minutes 13 seconds

Here, the difference between X and R is 13 minutes 27 seconds i.e. @>



#### Puzzle 6 :- Question 4

Answer: E

Time taken by the person to reach the office %> i.e. 40 minutes 27 seconds

But he took @& 13 minutes 35 seconds more on that day.

Therefore, total time taken by the person to reach on that particular day is 54 minutes and 2 seconds.

But we cannot code 54 and 2 according to the given codes.

#### Puzzle 6 :- Question 5

Answer: E

The one who finished second took &# i.e. 35 minutes 55 seconds

And he took @^ i.e. 13 minutes and 32 seconds less than the one who finished third.

Therefore, the one who finished third took =  $35.55 + 13.32 = 48.87$  or 49.27.

Therefore, the one who finished third took 49 minutes and 27 seconds, which can't be coded as per the given information.